

FIG. 1A

	1	50
Human	.....	.....
Ahmad	.....	.....
Chichon	.....	.....
Rat	MGLRSSCFVL	TLQDPPPLGEP
Mouse	.....	.....

	51	100
Human	.....	.....
Ahmad	RQEPGSPPRD	GLHHGPLCLG
Cichon	RQEPGSPPRD	GLHHGPLCLG
Rat	GQEPGTSPQD	GLHHGALCLG
Mouse	GQEPGTSPQD	GLRHGALCLG

FIG. 1B

	101		150
Human	.....	.....	.....
Ahmad	LVEGEGPQNG	ERKVNWLGSK	EGLRWKEAML
Cichon	LVEGEGPQNG	ERKVNWLGSK	EGLRWKEAML
Rat	VVEGEGSRNG	ERKANWLGSK	EGLRWKEAML
Mouse	LVEGEGPRNG	ERKGSWLGGK	EGLRWKEAML
	151		200
Human	.....	.....	.....
Ahmad	EHSGGHLKSD	PVAFRPWHCP	FLLETKILER
Cichon	EHSGGHLKSD	PVAFRPWHCP	FLLETKILER
Rat	EHS SGHPKSD	PVAFRPLHCP	FLLETKILER
Mouse	EHS GGHPKSD	PVAFRPLHCP	FLLETKILER

FIG. 1C

	201			250
Human	.....	.....	.....	.....
Ahmad	HPCDWPLTPH	PWVYSGGQPK	VPSAFSLGSK	GFYKDPSP
Cichon	HPCDWPLTPH	PWVYSGGQPK	VPSAFSLGSK	GFYKDPSP
Rat	RSYDWPLAPS	PWVYSGSQPK	VPSAFSLGSK	GFYHKDPNIL
Mouse	RPYDWPLAPN	PWVYSGSQPK	VPSAFGLGSK	GFYHKDPNIL
				RLAKEPLAAA
				RLAKEPLAAA
				RLAKEPLAAA
				RLAKEPLAAS
				RLAKEPLA..
	251			300
Human	EPGLFGLNSG	GHLQRAGEAE	RPSLHQRDGE	MGAGRQQNPC
Ahmad	EPGLFGLNSG	GHLQRAGEAE	RPSLHQRDGE	MGAGRQQNPC
Cichon	EPGLFGLNSG	GHLQRAGEAE	RPSLHQRDGE	MGAGRQQNPC
Rat	ESGMLGLAPG	GHLQQACDAE	GPSLHQRDGE	TGAGRQQNLC
Mouse	ESGMLGLAPG	GHLQQACESE	GPSLHQRDGE	TGAGRQQNLC
				PLFLGQPDTV
				PLFLGQPDTV
				PLFLGQPDTV
				PVFLGYPDTV
				PVFLGYPDTV

FIG. 1D

	301					350
Human	PWTSWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR	
Ahmad	PWTSWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR	
Cichon	PWTSWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR	
Rat	PRTPWPSCPP	GLVHTLGNVW	AGPGSNSFGY	QLGPPVTPRC	PSPGPPTPPG	
Mouse	PRAPWPSCPP	GLVHSLGNIW	AGPGSNSLGY	QLGPPATPRC	PSPGPPTPPG	

	351					400
		*				
Human	GCCSSYPPTK	GGDLGPCGKC	QEGLEGASG	ASEPSEEVNK	ASGPRACPPS	
Ahmad	GCCSSYPPTK	GGDLGPCGKC	QEGLEGASG	ASEPSEEVNK	ASGPRACPPS	
Cichon	GCCSSYPPTK	GGGLGPCGKC	QEGLEGASG	ASEPSEEVNK	ASGPRACPPS	
Rat	GCCSSHLPAR	EGDPGPCRKC	QDSPEGSSSG	PGESSEERNK	A.GSRASPPS	
Mouse	GCCSSHLPAR	EGDLGPCRKC	QDSPEGSSSG	PGESSEERNK	A.DSRACPPS	

FIG. 1E

	401					450
Human	HHTKLKKTWL	TRHSEQFEC	RGCPEVEER	VARLRALKR	GSPEVQ	GAMG
Ahmad	HHTKLKKTWL	TRHSEQFEC	RGCPEVEER	VARLRALKR	GSPEVQ	GAMG
Cichon	HHTKLKKTWL	TRHSEQFEC	RGCPEVEER	VARLRALKR	GSPEVQ	GAMG
Rat	HHTKLKKTWL	TRHSEQFEC	GGCPGKGES	ATGLRALKR	GSPEVQ	GA.R
Mouse	HHTKLKKTWL	TRHSEQFEC	GGCSGKEES	ATGLRALKR	GSPEVQ	GASR

	451					500
		*				
Human	SPAPKRPPDP	FPGTAEQGAG	GWQEV	RDTSI	GNKD	VDSGQH
Ahmad	SPAPKRPPDP	FPGTAEQGAG	GLQEV	RDTSI	GNKD	VDSGQH
Cichon	SPAPKRPPDP	FPGTAEQGAG	GWQEV	RDTSI	GNKD	VDSGQH
Rat	GPAPKRPSHT	FPGTGRQGAR	AWQET	PETST	GSKA	.EAQQQ
Mouse	GPAPKRPSHP	FPGTGRQGAR	AWQET	PETII	GSKA	.EAEQQ

FIG. 1H

	701					750
Human	TAMHQVWVKE	DIRGHCPCQA	DARVWAPGDA	GQKESTQKT	PPTPQPSCNG	
Ahmad	TAMHQVWVKE	DIRGHCPCQA	DARVWAPGDA	GQKESTQKT	PPTPQPSCNG	
Cichon	TAMHQVWVKE	DIRGHCPCQA	DARVWAPGDA	GQKESTQKT	PPTPQPSCNG	
Rat	TVMHQVWAKE	DIRGHCFQV	DARVWAPGDG	GQKEPTEKT	PPAPQLSCNG	
Mouse	TVMHQVWAKE	DIRGHCFQV	DARVWAPGDG	GQKEPTEKT	PPTPQPSCNG	
	751					800
						*
Human	DTHRTKSIKE	ETPDSAETPA	EDRAGRGLP	CPSLCELLAS	TAVKLC LGHE	
Ahmad	DTHRTKSIKE	ETPDSAETPA	EDRAGRGLP	CPSLCELLAS	TAVKLC LGHD	
Cichon	DTHRTKSIKE	ETPDSAETPA	EDRAGRGLP	CPSLCELLAS	TAVKLC LGHE	
Rat	DSNRTKDIKE	ETPDSTESPA	EDRAGRSPLP	CPSLCELLAS	TAVKLC LGHE	
Mouse	DSNRTKDIKE	ETPDSTESPA	EDGAGRSPLP	CPSLCELLAS	TAVKLC LGHD	

FIG. 15

	901					950
					*	
Human	SGIQRTLQGN	LWGTEALGAL	GGQVQALSPL	GPPQPSSLGS	TTFWEGFSWP	
Ahmad	SGIQRTLQGN	LWGTEALGAL	GGQVQALSPL	APPQPSSLGS	TTFWEGFSWP	
Cichon	SGIQRTLQGN	LWGTEALGAL	GGQVQALSPL	GPPQPSSLGS	TTFWEGFSWP	
Rat	SGIQKTILRLS	LWGMEALGTL	GGQVQTLLTAL	GPPQPPTS LDS	TAFWKGF SHP	
Mouse	SGIQKTILRLS	LWGMEALGTL	GGQVQTLLTAL	GPPQPPTNLDS	TAFWEGFSHP	

	951		*		1000
Human	ELRPKSDEGS	VLLLHRAIGD	EDTSRVENLA	ASLPLPEYCA	LHGKLNLASV
Ahmad	ELRPKSDEGS	VLLLHRAFGD	EDTSRVENLA	ASLPLPEYCA	LHGKLNLASV
Cichon	ELRPKSDEGS	VLLLHRAIGD	EDTSRVENLA	ASLPLPEYCA	LHGKLNLASV
Rat	EARPKLDEGS	VLLLHRPLGD	KDES RVENLA	SSLPLPEYCA	HQGKLNLASV
Mouse	ETRPKLDEGS	VLLLHRTLGD	KDASRVQNLA	SSLPLPEYCA	HQGKLNLASV

FIG. 1K

	1001								1050
									*
Human	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHADTPL				|
Ahmad	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHADTPL				
Cichon	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHADTPL				
Rat	LPLGLTLHPL	EPQLWAAAYGV	NSHRGHLGTK	NLCVEVSDLI	SILVHAEACL				
Mouse	LPLGLTLHPL	EPQLWAAAYGV	NSHRGHLGTK	NLCVEVSDLI	SILVHAEACL				

	1051								1100
		*							
Human	PAWHRAQKDF	LSGLDGEGLW	SPGSQVSTVW	HVFAQDAQR	IRFLQMVCP				
Ahmad	PAWHEAQKDF	LSGLDGEGLW	SPGSQVSTVW	HVFAQDAQR	IRFLQMVCP				
Cichon	PAWHRAQKDF	LSGLDGEGLW	SPGSQVSTVW	HVFAQDAQR	IRFLQMVCP				
Rat	PPWYRAQKDF	LSGLDGEGLW	SPGSQTSTVW	HVFAQDAQR	IRFLQMVCP				
Mouse	PPWYRAQKDF	LSGLDGEGLW	SPGSQTSTVW	HVFAQDAQR	IRFLQMVCP				

FIG. 1L

	1101				1150
Human	AGAGALEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP
Ahmad	AGAGALEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP
Cichon	AGAGALEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP
Rat	AGAGTLEPGA	PGSCYLD ^S GL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP
Mouse	AGAGTLEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP
	1151				1200
				*	
Human	HQVQGLVSTV	SVTQ̄HFLSPE	TSALSAQLCH	Q̄GPSLPPDCH	LLYAQMDWAV
Ahmad	HQVQGLVSTV	SVTQ̄HFLSPE	TSALSAQLCH	QGASLPPDCH	LLYAQMDWAV
Cichon	HQVQGLVSTV	SVTQ̄HFLSPE	TSALSAQLCH	Q̄GPSLPPDCH	LLYAQMDWAV
Rat	HQVQGLVSTI	SVTQ̄HFLSPE	TSALSAQLCH	QGASLPPDHR	MLYAQMDRAV
Mouse	HQVQGLVSTI	SVTQ̄HFLSPE	TSALSAQLYH	Q̄GASLPPDHR	MLYAQMDRAV

FIG. 1M

	1201	1215
Human	FQAVKVAVGT	LQEAK
Ahmad	FQAVKVAVGT	LQEAK
Cichon	FQAVKVAVGT	LQEAK
Rat	FQAVKVAVGT	LQEAK
Mouse	FQAVKAAVGA	LQEAK